

# Measures of Academic Progress (MAP) New Jersey State-Aligned Version 4

The NWEA Goal Structure is a document that represents the content and structure of a state's standards documents. Goal structures are created through an alignment process that links state standards documents to the NWEA item bank. The MAP tests and associated reports for teachers and students are based upon this structure and alignment.

The alignment process begins with a thorough review of a state's standards documents by NWEA's curriculum specialists. The general goal areas or strands within a state's standards that appear across grade levels become the goals in the goal structure (indicated below as bold). Areas in a state's standards documents that are determined to be sub-domains of the goals/strands become the sub-goals in the goal structure (indented under each goal below).

Goal and sub-goal names from the Goal Structure are shortened for technical reasons to create the headings in DesCartes. Report Names are shortened further to accommodate report specifications.

<b>Mathematics 2-5 Goal Structure</b>	<b>Mathematics 2-5 DesCartes</b>	<b>Mathematics 2-5 Report Names</b>
<b>Number and Numerical Operations</b>	<b>Number and Numerical Operations</b>	<b>Number and Operations</b>
Number sense: construct meaning for numbers; understand the various uses of numbers (whole numbers, fractions, and decimals)*	Number Sense: Construct Meaning	
Number sense: demonstrate an understanding of place value concepts*	Number Sense: Understand Place Value	
Number sense: recognize the decimal nature of United States currency and compute with money; count and perform simple computations with coins*	Number Sense: Recognize and Use U.S. Currency	
Number sense: demonstrate a sense of the relative magnitudes of numbers; compare and order numbers*	Number Sense: Compare and Order Numbers	
Number sense: use whole numbers, fractions, and decimals to represent equivalent forms of the same number*	Number Sense: Represent Equivalence of Numbers	
Number sense: develop and apply number theory concepts in problem solving situations; identify whether any whole number is odd or even	Number Sense: Apply Number Theory Concepts	

Numerical operations: develop the meanings of the four basic arithmetic operations; recognize the appropriate use of each arithmetic operation; use concrete models; understand and use the inverse relationships between addition and subtraction and between multiplication and division; understand and use the various relationships among operations and properties of operations*	Numerical Operations: Develop Meanings	
Numerical operations: develop proficiency with basic addition and subtraction number facts; construct, use and explain procedures for performing calculations; use efficient and accurate pencil-and-paper procedures for computation; check the reasonableness of results of computations; addition and subtraction whole numbers, decimals, and fractions*	Numerical Operations: Add and Subtract	
Numerical operations: develop proficiency with basic multiplication and division number facts; construct, use and explain procedures for performing calculations; use efficient and accurate pencil-and-paper procedures for computation; check the reasonableness of results of computations; multiplication and division whole numbers*	Numerical Operations: Multiply and Divide	
Estimation*	Estimation	
<b>Geometry and Measurement</b>	<b>Geometry and Measurement</b>	<b>Geometry and Measurement</b>
Geometric properties	Geometric Properties	
Transforming shapes	Transforming Shapes	
Coordinate geometry	Coordinate Geometry	
Units of measurement	Units of Measurement	
Measuring geometric objects	Measuring Geometric Objects	
<b>Patterns and Algebra</b>	<b>Patterns and Algebra</b>	<b>Patterns and Algebra</b>
Patterns	Patterns	
Functions and relationships	Functions and Relationships	
Modeling and procedures	Modeling and Procedures	
<b>Data Analysis, Probability, and Discrete Mathematics</b>	<b>Data Analysis, Probability, Discrete Mathematics</b>	<b>Data, Prob, Discrete Math</b>
Data analysis	Data Analysis	



Probability	Probability	
Discrete mathematics: systematic listing and counting, vertex-edge graphs, and algorithms	Discrete Mathematics	
<b>Mathematical Processes</b>	<b>Mathematical Processes</b>	<b>Mathematical Processes</b>
Problem solving	Problem Solving	
Communication, connections, reasoning, representations, and technology	Communication, Connections, Reasoning	

\*Denotes that calculator use is not permitted in this goal or sub-goal of the test.

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Mathematics 6+ Goal Structure	Mathematics 6+ DesCartes	Mathematics 6+ Report Names
<b>Number and Numerical Operations</b>	<b>Number and Numerical Operations</b>	<b>Number and Operations</b>
Number sense: construct meaning for numbers; understand the various uses of numbers; develop conjectures and informal proofs of properties of number systems and sets of numbers; (whole numbers, fractions, decimals, integers, rational numbers, percents, exponents, roots, absolute value, scientific notation, common irrational numbers, real numbers)*	Number Sense: Construct Meaning	
Number sense: demonstrate an understanding of place value concepts*	Number Sense: Understand Place Value	
Number sense: recognize the decimal nature of United States currency and compute with money; count and perform simple computations with coins*	Number Sense: Recognize and Use U.S. Currency	
Number sense: demonstrate a sense of the relative magnitudes of numbers; compare and order rational and irrational numbers*	Number Sense: Compare and Order Numbers	
Number sense: use whole numbers, fractions, decimals, and percents to represent equivalent forms of the same number; recognize that repeating decimals correspond to fractions and determine their fractional equivalents*	Number Sense: Represent Equivalence of Numbers	
Number sense: develop and apply number theory concepts in problem solving situations; identify whether any whole number is odd or even	Number Sense: Apply Number Theory Concepts	
Number sense: understand and use ratios, proportions, and percents in a variety of situations*	Number Sense: Use Ratios, Proportions, Percents	

Numerical operations: develop the meanings of the four basic arithmetic operations; recognize the appropriate use of each arithmetic operation; use concrete models; understand and use the inverse relationships between addition and subtraction and between multiplication and division; understand and use the various relationships among operations and properties of operations*	Numerical Operations: Develop Meanings	
Numerical operations: develop proficiency with basic addition and subtraction number facts; construct, use and explain procedures for performing calculations; use efficient and accurate pencil-and-paper procedures for computation; check the reasonableness of results of computations; addition and subtraction through real numbers	Numerical Operations: Add and Subtract	
Numerical operations: develop proficiency with basic multiplication and division number facts; construct, use and explain procedures for performing calculations; use efficient and accurate pencil-and-paper procedures for computation; check the reasonableness of results of computations; multiplication and division through real numbers	Numerical Operations: Multiply and Divide	
Numerical operations: develop proficiency with computations involving powers, roots, proportions, and percents	Numerical Operations: Advanced	
Estimation*	Estimation	
<b>Geometry and Measurement</b>	<b>Geometry and Measurement</b>	<b>Geometry and Measurement</b>
Geometric properties	Geometric Properties	
Transforming shapes	Transforming Shapes	
Coordinate geometry	Coordinate Geometry	
Units of measurement	Units of Measurement	
Measuring geometric objects	Measuring Geometric Objects	
<b>Patterns and Algebra</b>	<b>Patterns and Algebra</b>	<b>Patterns and Algebra</b>
Patterns	Patterns	
Functions and relationships	Functions and Relationships	
Modeling and procedures	Modeling and Procedures	

<b>Data Analysis, Probability, and Discrete Mathematics</b>	<b>Data Analysis, Probability, Discrete Mathematics</b>	<b>Data, Prob, Discrete Math</b>
Data analysis	Data Analysis	
Probability	Probability	
Discrete mathematics: systematic listing and counting, vertex-edge graphs, and algorithms	Discrete Mathematics	
<b>Mathematical Processes</b>	<b>Mathematical Processes</b>	<b>Mathematical Processes</b>
Problem solving	Problem Solving	
Communication, connections, reasoning, representations, and technology	Communication, Connections, Reasoning	

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## Measures of Academic Progress (MAP) New Jersey State-Aligned Version 4

Reading Goal Structure	Reading DesCartes	Reading Report Names
<b>Concepts About Print, Decoding, Word Recognition</b>	<b>Concepts About Print, Decoding, Word Recognition</b>	<b>Print, Decoding, Word Recognition</b>
<p>Print, textual features, organizational structures: Recognize and use common print formats to obtain information (e.g., newspapers, magazines); identify and use common textual features (e.g., paragraphs, topic, sentence, index, glossary, table of contents) and graphic features (e.g., charts, maps, diagrams) to comprehend information; identify and use organizational structures to comprehend information.</p>	<p>Print, Textual Features, Organizational Structures</p>	
<p>Word patterns, phonics: Apply knowledge of word patterns to read with automaticity; apply knowledge of new words correctly (refer to word parts and word origin); recognize compound words, contractions, and common abbreviations; apply spelling and syllabication rules that aid in decoding and word recognition.</p>	<p>Word Patterns, Phonics</p>	
<p>Context: Use context clues or knowledge of phonics to decode new words; use context to accurately read words with more than one pronunciation; distinguish among the spellings of homophones to determine meaning.</p>	<p>Context</p>	
<b>Reading Strategies, Vocabulary Development</b>	<b>Reading Strategies, Vocabulary Development</b>	<b>Read Strategy, Vocab Dev</b>
<p>Predictions and relationships between words: Make predictions; identify and correctly use antonyms, synonyms; explain relationships between and among words including connotation/denotation, antonyms/synonyms, and words with multiple meanings; expand reading vocabulary by identifying and correctly using idioms and words with literal and figurative meanings.</p>	<p>Predictions and Relationships Between Words</p>	

Comprehension Skills	Comprehension Skills	Comprehension Skills
Cause/effect, fact/opinion, bias/persuasion: Distinguish between cause and effect, fact and opinion; use cause and effect and sequence of events to gain meaning; differentiate between fact and opinion by using complete and accurate information, coherent arguments, and points of view; differentiate between bias and propaganda in newspapers and periodicals; identify the use of propaganda techniques where present; recognize an author's point of view; recognize persuasive techniques used to influence readers.	Cause/Effect, Fact/Opinion, Bias/Persuasion	
Main idea, inferences, conclusions: Ask how, why, and what-if questions in interpreting nonfiction texts; identify, describe, evaluate, and synthesize the central ideas in informational texts; distinguish between essential and nonessential information; draw conclusions and inferences from texts.	Main Idea, Inferences, Conclusions	
Response to Text	Response to Text	Response to Text
Nonfiction, literary, technical, functional texts: Read critically by identifying, analyzing, and applying knowledge of the purpose, structure, and elements of nonfiction; recognize differences among forms of literature, including poetry, drama, and fiction; articulate the purposes and characteristics of different genres; read critically and analyze poetic forms; identify and respond to the elements of sound and structure in poetry; identify the structures in drama; identify genres by their distinctive elements; demonstrate the use of everyday texts (e.g., train schedules, directions, brochures) and make judgments about the importance of such documents; demonstrate familiarity with everyday texts, such as job and college applications, W-2 forms, and contracts; read, comprehend, and be able to follow information gained from technical and instructional manuals (e.g., how-to books, computer manuals, or instructional manuals); follow simple multiple-steps in written instructions.	Nonfiction, Literary, Technical, Functional Texts	

<p>Elements of literature: Identify and analyze features of themes conveyed through characters, actions, and images; understand that theme refers to the central idea or meaning of a selection and recognize themes, whether implied or stated directly; locate and analyze the elements of setting, characterization, and plot to construct understanding of how characters influence the progression and resolution of the plot; recognize characterization, setting, plot, theme, and point of view in fiction; explain ways that the setting contributes to the mood of a novel, play, or poem; read critically by identifying, analyzing, and applying knowledge of the theme, structure, style, and literary elements of fiction and providing support from the text as evidence of understanding.</p>	<p>Elements of Literature</p>	
<p>Figurative language and literary devices: Recognize how authors use humor, sarcasm, and imagery to extend meaning; identify literary devices in stories; recognize sensory details, figurative language, and other literary devices in text; identify and analyze literary techniques and elements, such as figurative language, meter, rhetorical and stylistic features of text; identify and understand the author's use of idioms, analogies, metaphors, personification, alliteration, diction, and similes in prose and poetry; analyze how an author's use of words creates tone and mood, and how choice of words advances the theme or purpose of the work; identify and analyze literary techniques and elements, such as figurative language, meter, rhetorical, and stylistic features of text; interpret idiomatic expressions.</p>	<p>Figurative Language and Literary Devices</p>	

## Measures of Academic Progress (MAP) New Jersey State-Aligned Version 4

Language Usage Goal Structure	Language Usage DesCartes	Language Usage Report Names
<b>Writing as a Process</b>	<b>Writing as a Process</b>	<b>Writing Process</b>
Prewriting and drafting strategies: Use strategies such as graphic organizers and outlines to plan and write drafts according to the intended message, audience, and purpose for writing; draft writing in a selected genre with supporting structure and appropriate voice according to the intended message, audience, and purpose for writing.	Prewriting and Drafting Strategies	
Revise and edit drafts: Revise and edit drafts by rereading for content and organization, usage, sentence construction, mechanics, and word choice; review and edit work for spelling, usage, clarity, and fluency.	Revise and Edit Drafts	
Write multi-paragraph compositions: Write multi-paragraph compositions that have clear topic development, logical organization, effective use of detail; make decisions about the use of precise language, including adjectives, adverbs, verbs, and specific details, and justify the choices made.	Write Multi-Paragraph Compositions	
<b>Writing as a Product</b>	<b>Writing as a Product</b>	<b>Writing Product</b>
Write prose, reports, and nonfiction: Write various types of prose, such as short stories, biographies, autobiographies, or memoirs that contain narrative elements; write reports and subject-appropriate nonfiction pieces across the curriculum based on research and including citations, quotations, and a works cited page; write grade-appropriate, multi-paragraph expository pieces across curricula (e.g., hypothesis/results, feature articles, critique, research reports); write a range of essays, including persuasive, descriptive, personal, and analytic.	Write Prose, Reports, and Nonfiction	

<p>Sentences, sequence, and transitions: Write sentences of varying length and complexity, using specific nouns, verbs, and descriptive words; recognize the difference between complete sentences and sentence fragments; provide logical sequence and support the purpose of writing by refining organizational structure and developing transitions between ideas; draft a thesis statement and support it through highly developed ideas and content, organization, and paragraph development.</p>	<p>Sentences, Sequence, and Transitions</p>	
<p><b>Mechanics, Spelling</b></p>	<p><b>Mechanics, Spelling</b></p>	<p><b>Mechanics, Spelling</b></p>
<p>Use standard English conventions of grammar: Sentence structure, grammar, and usage; subject/verb agreement, pronoun usage and agreement, and appropriate verb tenses; singular and plural nouns; appropriate parts of speech; use a variety of sentence types correctly, including combinations of independent and dependent clauses, prepositional and adverbial phrases; use subordination, coordination, apposition, and other devices effectively to indicate relationships between ideas; use parallelism.</p>	<p>Use Standard English Conventions: Grammar</p>	
<p>Use standard English conventions of capitalization: Use capital letters correctly in sentences, for proper nouns, and in titles.</p>	<p>Use Standard English Conventions: Capitalization</p>	
<p>Use standard English conventions of punctuation: Use commas and colons; ending punctuation; quotation marks in dialogue; related punctuation correctly in passages of dialogue.</p>	<p>Use Standard English Conventions: Punctuation</p>	
<p>Use standard English conventions of spelling: Use knowledge of roots, prefixes, suffixes, and English spelling patterns to spell words correctly in writing; spell grade-appropriate words correctly with particular attention to frequently used words, contractions, and homophones.</p>	<p>Use Standard English Conventions: Spelling</p>	

Writing Forms, Audiences, and Purposes	Writing Forms, Audiences, and Purposes	Writing Forms, Aud, Purpose
<p>Write for different purposes, organization: Write to express ideas, inform, entertain, respond to literature, persuade, question, reflect, clarify, share and a variety of audiences; use a variety of strategies to organize writing, including sequence, chronology, cause/effect, problem/solution, and order of importance</p>	<p>Write for Different Purposes, Organization</p>	
<p>Write narratives, business and persuasive writing: Write personal narratives, poetry, persuasive and expository text that relate clear, coherent events, or situations; write narratives establishing a plot or conflict, setting, characters, point of view, and resolution; compile and synthesize information for everyday and workplace purposes, such as job applications, resumes, business letters, and college applications; demonstrate the ability to write friendly/business letters in correct format and coherent style; present evidence when writing persuasive essays, examples, and justification to support arguments; use narrative and descriptive writing techniques that show compositional risks (e.g., dialogue, literary devices, sensory words and phrases, background information, thoughts and feelings of characters, comparison and contrast of characters); evaluate the impact of an author's decisions regarding tone, word choice, style, content, point of view, and literary elements; demonstrate command of a variety of writing genres, such as parody of a particular narrative style, fable, myth.</p>	<p>Write Narratives, Business and Persuasive Writing</p>	